## PROJECT DESCRIPTION

## GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 97 (LITTLESTOWN PK) AND /IRPORT DRIVE/MAGNA WAY IN CARROLL COUNTY. MD 97 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

### INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 97
///ROACHES OPERATING CONCURRENTLY AND THE AIRPORT DRIVE/MAGNA WAY APPROACHES OPERATING CONCURRENTLY.

THILLUSIVE/PER ISSIVE LEFT-TURN PHASES EXIST FOR BOTH MD 97 APPROACHES. A RIGHT-TURN OVERLAP FOR MIRPORT DRIVE WILL BE PROVIDED.

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: T EXISTING I \SE MOUNTED CONTROLLER AND CABINET WILL BE USED.

## MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.

STANDARD NO. 1.10-104.00 - 104.00-30

STANDARD NO. MD-104.32-01 (INTERSECTION FLAGGING OPERATION)

STANDARD NO. MD-104.34 (LANE SHIFT)

STANDARD NO. MD-104.60 (MOBILE OPERATION)

## PROJECT CONTACTS

MR. JIM BUCKALEW ACTING DISTRICT UTILITIES ENGINEER PHONE: (310) 729-8436

MR. RICHARD L. DAFF. SR. CHIEF. TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

I'A ROLERT FISHER DIJTRICT ENGINEER FHOHE: (301) 621-8140

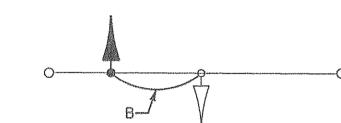
TR. JOHN CONCINION
/SSISTANT DISTRICT ENGINEER - TRAFFIC
FIG: E: (301) /21-8141

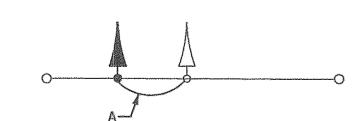
Mr. Dave Counce

ASSICT OF DISTRICT ENGINEER - MAINTENANCE

(410 624-8106)

# WIRING DIAGRAM





WIRING KEY

A 7-CONDUCTOR ELECTRICAL B CABLE (NO. 14 A.W.G.)

# EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9089	82 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF :
		- 1 EACH ASSOCIATED SHIELD ASSEMBLY "SOUTH: MD 97; RIGHT ARROW (24 IN: X 51 IN:) - POLE MOUN
		- 1 EACH ASSOCIATED SHIELD ASSEMBLY "NORTH, MD 97, RIGHT ARROW (24 IN. X 51 IN.) - POLE MOUN
		- 1 EACH ASSOCIATED SHIELD ASSEMBLY "SOUTH, MD 97, LEFT ARROW (36 IN. X 75 IN.) - POLE MOUNT
		<ul> <li>1 EACH ASSOCIATED SHIELD ASSEMBLY "NORTH, MD 97, LEFT ARROW (36 IN. X 75 IN.) - POLE MOUNT</li> </ul>
		- 1 EACH R3-5L SIGN (30 IN. X 36 IN.) - SPAN MOUNT
		- 2 EACH R3-5R SIGN (30 IN. X 36 IN.) - SPAN MOUNT
		- 2 EACH R10-4(2) SIGN (9 IN. X 12 IN.) - POLE MOUI

# EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

1 (R)	2	3	4 (V)(R)	5 (R)	6 (R)	7 (R)(-Y)	7	8 (R)	9	1 (R
	(4) Y (6) G	(x)	G G	4Y- Y 4G- G	(e)	G G	Y G	Y -YP	Y	Y

PHASE I + 5	R 4 G	R 4—G—	R	R ∢ G	R ←-G	R	R —G→	R	R G>	R	R	
1 + 5 CHANGE	PHASE	1 + 5 N	AY CHAI	NGE TO	PHASE 1	+ 6, F	HASE 2	+ 5 OR	PHASE	2 + 6	C	*
PHASE I + 6	G ← G —	G 4—6—	G	R	R	R	R G->	R	R G-→	R	R	1
I + 6 CHANGE	G ← Y	G ∢— Y ——	G	R	R	R	R Y->>	R	R Y-→	R	R	7
PHASE 2 + 5	R	R	R	G 4−G−	G 4− G −−	G	R	R	R	R	R	,I
2 + 5 CHANGE	R	R	R	G 4— Y —	G ←- Y	G	R	R	R	R	R	1 F
PHASE 2 + 6	G	G	G	G	G	G	R	R	R	R	R	4
2 + 6 CHANGE	Y	Υ	Υ	Υ	Υ	Υ	R	Ř	R	R	R	7
PHASE 4 + 8	R	R	R	R	R	R	G	G	G	G	G	A 1
4 + 8 CHANGE	R	R	R	R	R	R	Υ	Y	Υ	Υ	Υ	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	

## EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
5006	2 EACH	HEAT APPLIED PERMANENT PREFORMED PAVEMENT MARKING ARROW
5008	6 EACH	REMOVE EXISTING PAVEMENT MARKING LETTER OR ARROW
8010	190 L.F.	FURNISH AND INSTALL STEEL SPAN WIRE 1/4 IN. DIAMETER
8045	60 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
8053	82 SF.	INSTALL OVERHEAD SIGN
8084	7 EACH	FURNISH AND INSTALL 12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION - BLACK FACE
8085	3 EACH	FURNISH AND INSTALL 8 IN. VEHICULAR TRAFFIC SIGNA; HEAD SECTION - BLACK FACE
	er er	

## PHASE CHART

PHASE I + 5	4-G-	< G	R	4 G	( G	R	G→	R	G>	R	R	4
1 + 5 CHANGE	PHASE	1 + 5 N	AY CHA	NGE TO	PHASE 1	+ 6,	PHASE 2	+ 5 OR	PHASE	2 + 6		T
PHASE I + 6	G 4−G−	G 4—6—	G	R	R	R	R G>	R	R G-→	R	R	1
I + 6 CHANGE	G	Ğ ←-Ÿ	G	R	R	R	R Y->	R	R Y-→	R	R	
PHASE 2 + 5	R	R	R	G 4-G-	G 4— G—	G	R	R	R	R	R	, <u>T</u>
2 + 5 CHANGE	R	R	R	G 4— Y ——	G ←- Y	G	R	R	R	R	R	+ <b>€</b> _T
PHASE 2 + 6	G	G	G	G	G	G	R	R	R	R	R	4
2 + 6 CHANGE	Y	Υ	Υ	Υ	Y	Υ	R	R	R	R	R	T
PHASE 4 + 8	R	R	R	R	R	R	G	G	G	G	G	<b>A</b>

VXXFR8/A

Whitman. Requardt and Associates, LLP 2315 Saint Paul Street Baltimore, Maryland 21218

(410) 235-3450

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION

TRAFFIC SIGNALIZATION PLAN MD 97 (Littlestown Pk) and Airport Dr./Magna Way

DRAWN BY: S.BLOSS F.A.P. NO. 2385472502839 3345 CHECKED BY: N.LEARY S.H.A. NO. SHEET NO. NONE COUNTY: CARROLL SCALE: T.I.M.S. NO. E382-A 2/15/01 06009719.09 OG MILE: 2 OF 2 M:\960||A\e382gd02.dgn